

## Patent Abstracts of Japan

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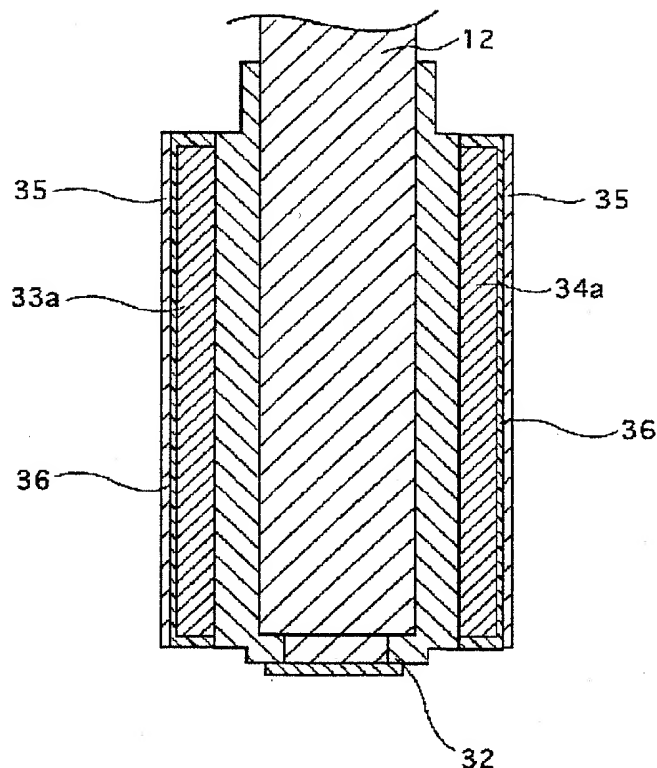
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TITLE : TORQUE MOTOR



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a torque motor which can fix and protect the permanent magnet of a rotor with simple structure.

**SOLUTION:** This torque motor is provided with a cylindrical cover 35 such that it covers the permanent magnets consisting of permanent magnets 33a and 34a, around a rotor. This prevents the permanent magnets 33a and 34a from breaking or coming off a rotor core 32. Resin material 36 is placed as a filler between the cover 35 and the rotor 30, covering the face in the radial direction and in the circumferential direction of each permanent magnet 33a and 34a thereby fixing it. This can prevent the permanent magnets 33a and 34a from shifting in the cover and being worn away. Moreover, since the permanent magnets 33a and 34a are covered with resin material 36, it never contacts directly with the outside air, and this can prevent rust.

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